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| | Application No. | Applicant(s) | |
| Notice of Allowability | 10/673,857 Examiner | SUTTER ET AL. Art Unit | |
| | Zheng Wei | 2192 | |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31 | S (OR REMAINS) CLOSED in this a 5) or other appropriate communication RIGHTS. This application is subject | pplication. If not included on will be mailed in due cours | se. THIS |
| 1. This communication is responsive to 10/28/2007. | | | · |
| 2. X The allowed claim(s) is/are 2-12 and 14-15 (renumbered | <u>as 1-13)</u> . | | |
| Acknowledgment is made of a claim for foreign priority of a line in the priority documents have | | | |
| 2. Certified copies of the priority documents have | ve been received in Application No. | • | |
| 3. Copies of the certified copies of the priority d | ocuments have been received in this | s national stage application f | from the |
| International Bureau (PCT Rule 17.2(a)). | | | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | y complying with the require | ments |
| A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which given | | | DE OF |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mu | ust be submitted. | | |
| (a) 🔲 including changes required by the Notice of Draftsper | rson's Patent Drawing Review(PT0 | 0-948) attached | |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date | - | | |
| (b) ☐ including changes required by the attached Examine Paper No./Mail Date | r's Amendment / Comment or in the | Office action of | |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | 1.84(c)) should be written on the draw the header according to 37 CFR 1.12 | vings in the front (not the back 1(d). | <) of . |
| DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT | osit of BIOLOGICAL MATERIAL FFOR THE DEPOSIT OF BIOLOGI | must be submitted. Note CAL MATERIAL. | the |
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| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | E Nation of Informal | Datast Application | |
| Induce of References Cited (FTO-692) Induce of Draftperson's Patent Drawing Review (PTO-948) | 5. ☐ Notice of Informal6. ☐ Interview Summar | • • | |
| | Paper No./Mail D | ate | |
| Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date | 7. 🗌 Examiner's Amend | ament/Comment | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. X Examiner's Staten | nent of Reasons for Allowand | ce |
| | 9. Other | P | |
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| • | Tuan DA: SEPERVISORY PATE: | N NEWWAXE TH | |

Application/Control Number: 10/673,857

Art Unit: 2192

DETAILED ACTION

Page 2

- 1. This office action is in response to the amendment filed on 10/28/2007.
- 2. Claims 1, 13 and 16-31 have been cancelled.
- 3. Claims 2-12 and 14 –15 have been amended.
- 4. Claims 2-12 and 14-15 remain pending and now being allowed.

Allowable Subject Matter

5. As Applicants amended and rewrote the claims 14 as independent form including all of the limitations of the base claims, neither the closest cited prior art nor the combination of cited prior arts: Tip (Tip et al., Class Hierarchy Specialization) and Pauw (Pauw et al., Visualizing the execution of Java Programs) and Sweeney (Sweeney et al., Extracting Library-Based Object-Oriented) teaches or fairly suggests at least the feature of automatic replacement of object classes including: "determining at least one equivalence class E of declaration elements and expressions that must have a same type; computing a set of possible types of equivalence class E using an optimistic algorithm, wherein this algorithm associates a set S sub E of types with equivalence class E, which is initialized as follows: associating a set S sib E with the equivalence class E containing types C and CustomC if E contains an allocation site expression new C; and associating a set S sub E with equivalence class E containing all types except auxiliary types Ct and C^{\perp} , wherein Ct and C^{\perp} are intermediate types not provided as output during the generation of custom classes if E does not contain any allocation site

Application/Control Number: 10/673,857

Art Unit: 2192

expressions". The dependent claims are also allowable for at least the same reasons.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571) 270-1059 and Fax number is (571) 270-02059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571- 272-1000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SUPERVISORY PATENT EXAMINES